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KD-Validated Anti-Calnexin Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1235

Product Information

Application	WB, FC, ICC
Primary Accession	P27824
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2760
Calculated MW	67568
Gene Name	CANX
Aliases	CANX; Calnexin; IP90; P90; Major Histocompatibility Complex Class I Antigen-Binding Protein P88; CNX; Epididymis Secretory Sperm Binding Protein
Immunogen	A synthesized peptide derived from human Calnexin

Additional Information

Gene ID	821
Other Names	Calnexin, IP90, Major histocompatibility complex class I antigen-binding protein p88, p90, CANX

Protein Information

Name	CANX
Function	Calcium-binding protein that interacts with newly synthesized monoglucosylated glycoproteins in the endoplasmic reticulum. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. It seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins. Associated with partial T-cell antigen receptor complexes that escape the ER of immature thymocytes, it may function as a signaling complex regulating thymocyte maturation. Additionally it may play a role in receptor-mediated endocytosis at the synapse.
Cellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein. Mitochondrion membrane {ECO:0000250|UniProtKB:P24643}; Single-pass type I membrane protein. Melanosome membrane; Single-pass type I membrane protein. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545, PubMed:17081065). The palmitoylated form preferentially localizes to the perinuclear rough ER (PubMed:22314232) Localizes to endoplasmic reticulum mitochondria-associated membrane (MAMs) that connect the endoplasmic

reticulum and the mitochondria (By similarity).
{ECO:0000250|UniProtKB:P24643, ECO:0000269|PubMed:12643545,
ECO:0000269|PubMed:17081065, ECO:0000269|PubMed:22314232}